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- comprising  
and according

8. The chip card according to claim 6, wherein said volatile memory unit is

9. The chip card according to claim 6, wherein said memory unit is

10. The chip card according to claim 9, further comprising a first

11. The chip card according to claim 10, wherein said first and second

12. The chip card according to claim 1, wherein said chip card further

13. A chip card, comprising:

a substrate;

a volatile memory device disposed on said substrate; and

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a battery in electrical contact with said memory device by way of first and second conductive elements, said first and second conductive elements being of opposite polarity;

wherein said memory device is encapsulated in an epoxy resin, and wherein said first and second conductive elements are also encapsulated in an epoxy resin in the vicinity of said memory device.

14. The chip card according to claim 13, wherein said memory device is of a type selected from the group consisting of RAM, DRAM and SRAM.

15. The chip card according to claim 13, wherein said volatile memory unit is an SRAM memory unit.

16. The chip card according to claim 13, wherein said chip card further comprises a microprocessing unit.

17. The chip card according to claim 13, wherein said battery is a thin film battery.

18. The chip card according to claim 17, wherein said battery includes a solid-state electrolyte.

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19. The chip card according to claim 18, wherein said electrolyte comprises lithium phosphorous oxynitride.

20. The chip card according to claim 17, wherein the battery comprises a lithium anode having a layer of lithium phosphorous oxynitride thereon.

21. The chip card according to claim 17, wherein said battery is hermetically sealed within the card.

22. The chip card according to claim 17, wherein said memory device is disposed within a chip module, and wherein said battery is disposed on a surface of said chip module.

23. The chip card according to claim 17, wherein said memory device is disposed within a chip module, and wherein said battery is also disposed within said chip module.

24. A credit card sized apparatus including:

a battery;

an external power source input for coupling to an external power source;

and

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a microprocessor being coupled to the external power source input and to the battery, said microprocessor trickle charging the battery when an external power source is coupled to the external power source input.

25. The apparatus according to claim 25, wherein the microprocessor includes at least one digital output port, which is coupled to the battery.

26. The apparatus according to claim 25, wherein the microprocessor transmits a series of digital pulses to the battery when the external power source is coupled to the external power source input.

27. The apparatus according to claim 26, wherein the microprocessor transmits a pseudorandom sequence of digital pulses to the battery when the external power source is coupled to the external power source input.

28. A method for charging a battery comprising:  
coupling the battery terminals to a microprocessor output port; and  
transmitting a digital signal to the battery from the microprocessor port  
when the microprocessor is powered from a power source other than the battery.

29. The method according to claim 28, further comprising transmitting a pseudorandom sequence of digital pulses to the battery.

[illegible]

31. The method according to claim 28, further comprising connecting the terminals of the battery directly to the microprocessor output port without intermediate devices.

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